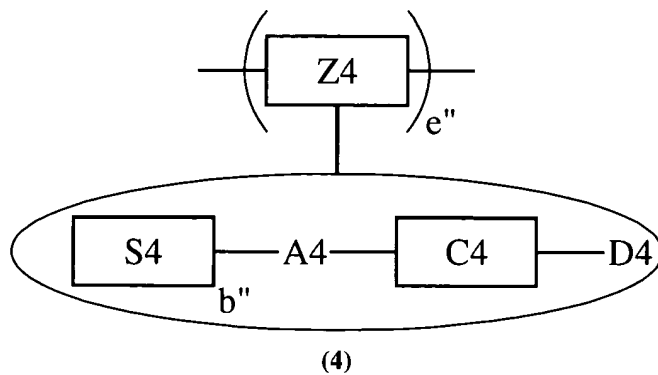


ABSTRACT

A compound having formula (4)



wherein: D4 is an electron donor moiety; C4 is a conjugated bridging moiety; A4 is an electron acceptor moiety; S4 is a hydrocarbon, a heterocyclic moiety, or a heteroacyclic moiety; b'' is an integer; Z4 is a polymerizable moiety; and e'' is the degree of polymerization.